

Prostate-Specific Transcript from TCR γ locus

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GGGCAAGAGTTGGGCAAAAAAATCAAGGTATTTGGTCCCGGAACAAAGCTTATCATTACA 60
<----- J gamma 1.2 ----->
      M Q M F P P S P L F F F L Q L L K Q S S R R      20
GATAACAACCTTGATGCAGATGTTTCCCCCAAGCCCACTATTTTCTTCCTTCAATTGCTGAAACAAAGCTCCAGAAGGC 140
<----- C gamma 1 (exon CI) ----->
      L E H T F V F L R N F S L M L L R Y I G K K R R A T R      40
TGGAACATACCTTTGTCTTCTTGAGAAATTTTCCCTGATGTTATTAAGATACATTGGCAAGAAAAGAAGAGCAACACGA 220
-----
      F W D P R R G T P      58
      M K T N D T Y M K F S W L T V P E K
TTCTGGGATCCCAGGAGGGGAACACCATGAAGACTAACGACACATACATGAAATTTAGCTGGTTAACGGTGCCAGAAAAG 300
-----
      S L D K E H R C I V R H E N N K N G V D Q E I I F P P      40
TCACTGGACAAAGAACACAGATGTATCGTCAGACATGAGAATAATAAAAACGGAGTTGATCAAGAAATTATCTTCTCTCC 380
-----
      I K T D V I T M D P K D N C S K D A N D T L L L Q L      60
AATAAAGACGGATGTCATCACAATGGATCCCAAAGACAATTGTTCAAAGATGCAAATGATACACTACTGCTGCAGCTCA 460
-----><----- C gamma 1 (exon CII) -----><-----
      T N T S A Y Y M Y L L L L L K S V V Y F A I I T C C L      80
CAAACACCTCTGCATATTACATGTACCTCCTCTGCTCCTCAAGAGTGTGGTCTATTTTGCCATCATCACCTGCTGTCTG 540
----- C gamma 1 (exon CIII) -----
      L R R T A F C C N G E K S      100
CTTAGAAGAACGGCTTTCTGCTGCAATGGAGAGAAATCATAACAGACGGTGGCACAAGGAGGCCATCTTTTCCTCATCGG 620
----->
TTATTGTCCCTAGAAGCGTCTTCTGAGGATCTAGTTGGGCTTTCTTTCTGGGTTTGGGCCATTTTCAGTTCTCATGTGTGT 700
ACTATTCTATCATTATTGTATAACGGTTTTTCAAACCAGTGGGCACACAGAGAACCTCACTCTGTAATAACAATGAGGAAT 780
AGCCACGGCGATCTCCAGCACCAATCTCTCCATGTTTTCCACAGCTCCTCCAGCCAACCCAAATAGCGCCTGCTATAGTG 860
TAGACATCCTGCGGCTTCTAGCCTTGTCCCTCTCTTAGTGTTCTTTAATCAGATAACTGCCTGGAAGCCTTTCATTTTAC 940
ACGCCCTGAAGCAGTCTTCTTTGCTAGTTGAATTATGTGGTGTGTTTTTCCGTAATAAGCAAAATAAATTTAAAAAATG 1020
AAAAGTT 1027

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Underlined sequences are:

- Transcription Initiation Site (within GCAAGAG sequence)
- Polyadenylation Signal (AATAAA)

Double Underlined sequences are:

- Possible Translation Initiation Codons (ATG)

FIG. 1

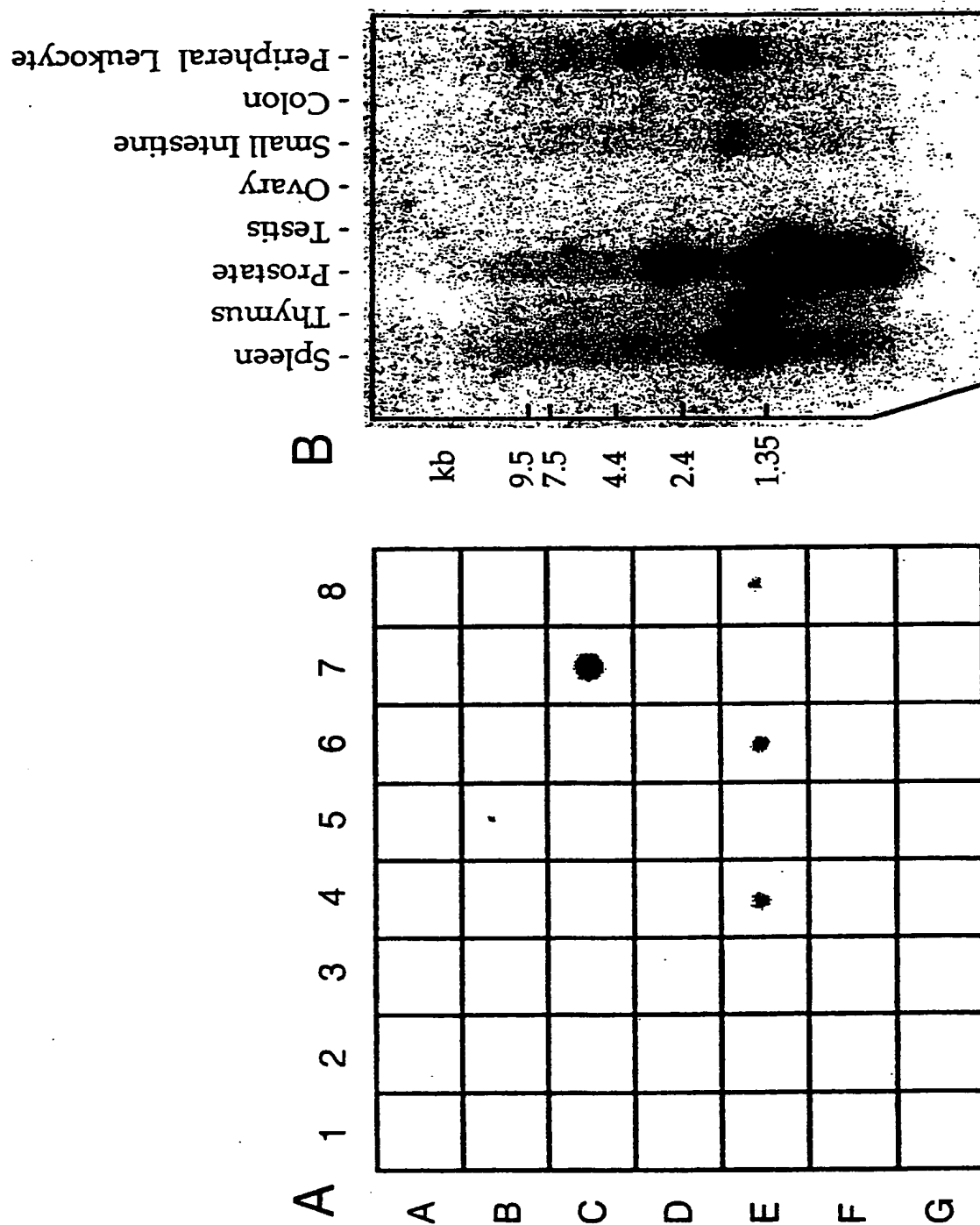


FIG. 2

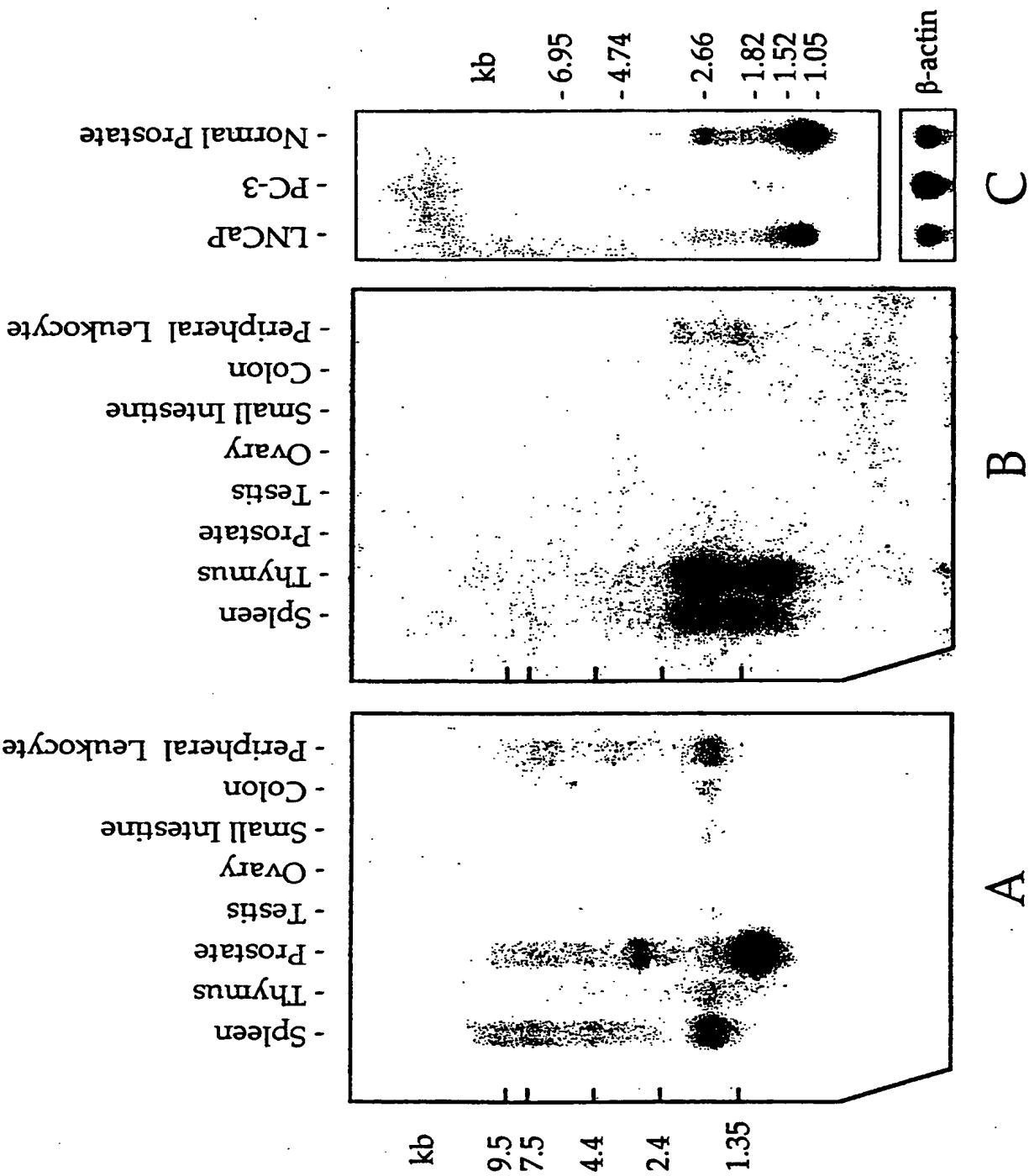


FIG. 3

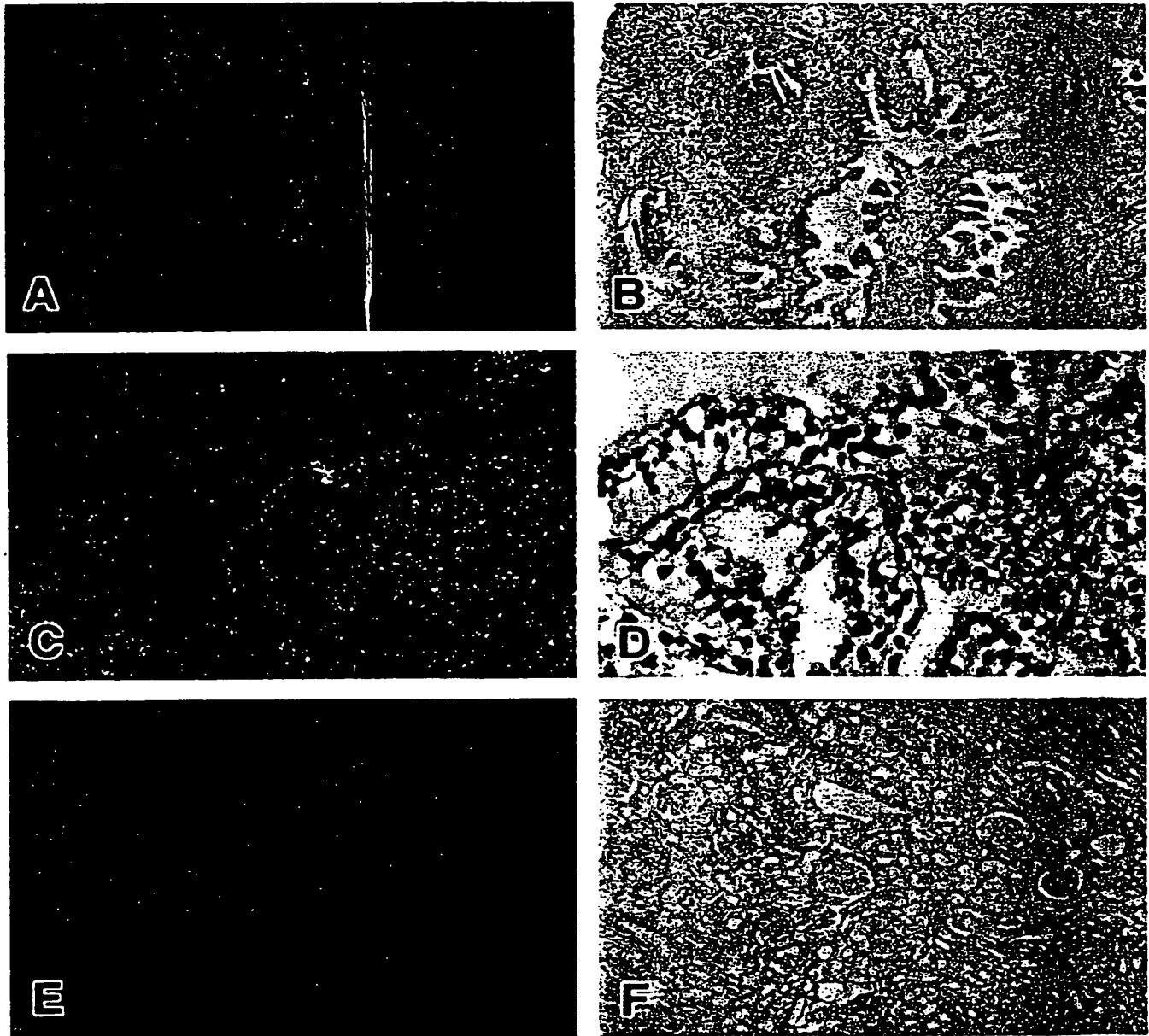


FIG. 4

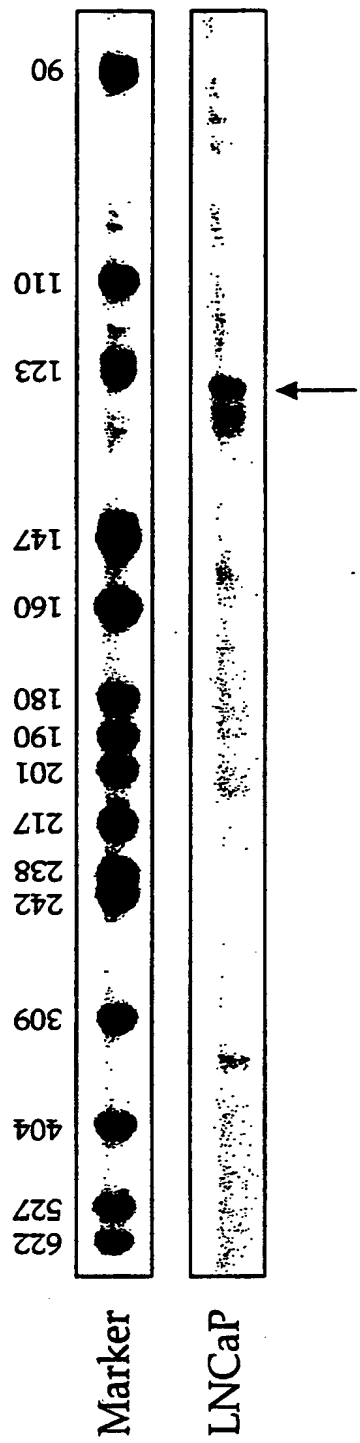


FIG. 5

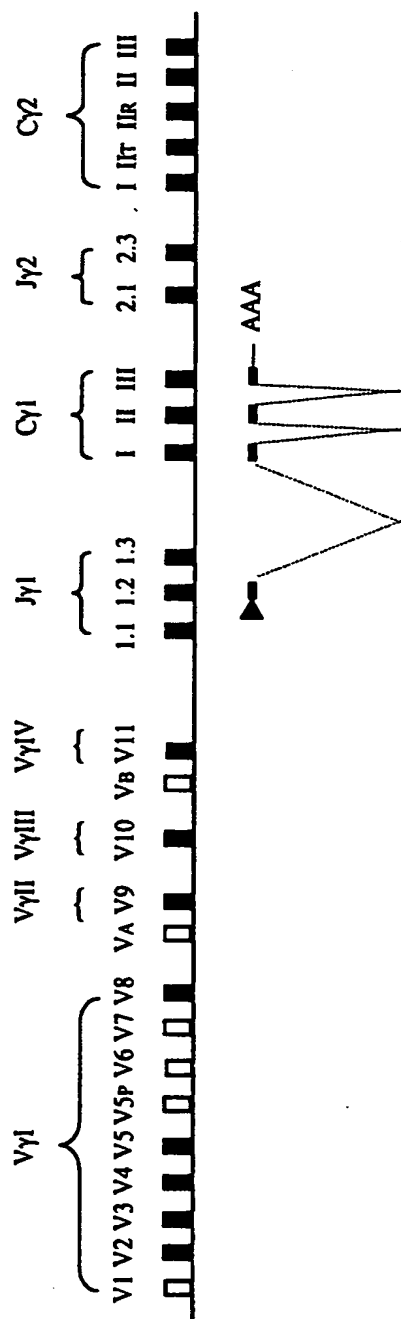


FIG. 6

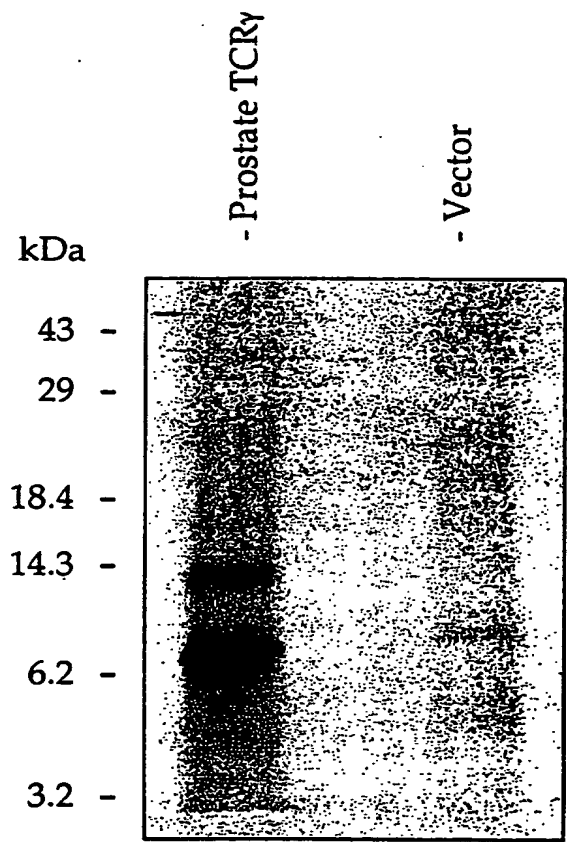
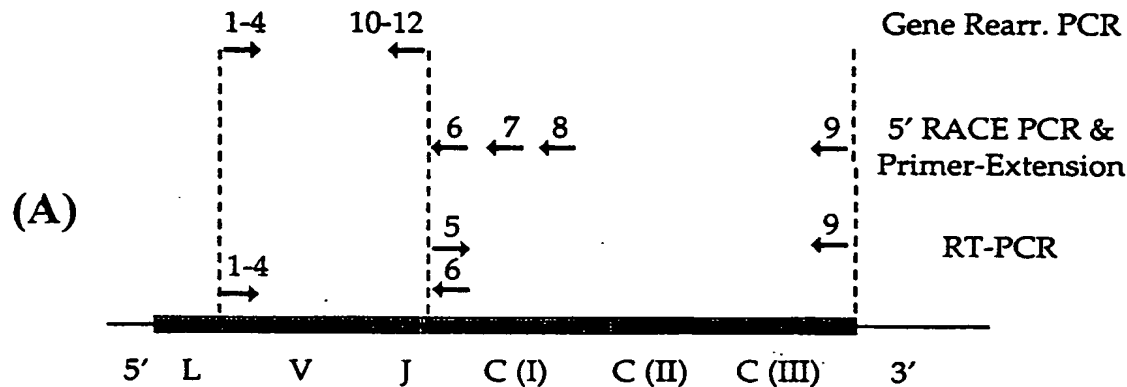


FIG. 7

TABLE 1. Primers (→) used for analysis of the prostate TCR γ transcript

(B)

Name	Annealing	Primer Sequence 5' -> 3'
1. TCRV γ I.F	V γ , subgroup I	AACCTTGAAGGGRGAACRAAGTCAGTC
2. TCRV γ II.F	V γ , subgroup II	AGTACTAAAACGCTGTCAAAAACAGCC
3. TCRV γ III.F	V γ , subgroup III	TTGGACTTGGATTATCAAAAGTGG
4. TCRV γ IV.F	V γ , subgroup IV	TTGGGCAGTTGGAACAACCTGAAA
5. TCRC γ .F	C γ , exon CI	GATAACAACCTTGATGCAGATGTTTCCC
6. TCRC γ .R1	C γ , exon CI	GGGAAACATCTGCATCAAGTTGTTTATC
7. TCRC γ .R2	C γ , exon CI	CTGGAGCTTTGTTTCAGCAATTGAAGG
8. TCRC γ .R3	C γ , exon CI	CTCAAGAAGACAAAGGTATGTTCCAGC
9. TCRC γ .R4	C γ , exon CIII	TTATGATTTCTCTCCATTGCAGCAG
10. TCRJ γ 1.1.R	J γ 1.1	GAAGTTACTATGAGCTTAGTCCCTT
11. TCRJ γ 1.2.R	J γ 1.2	AAGCTTTGTTCCGGGACCAAATAC
12. TCRJ γ 1.3.R	J γ 1.3	TACCTGTGACAACAAGTGTGTTC

R=A+G

FIG. 8

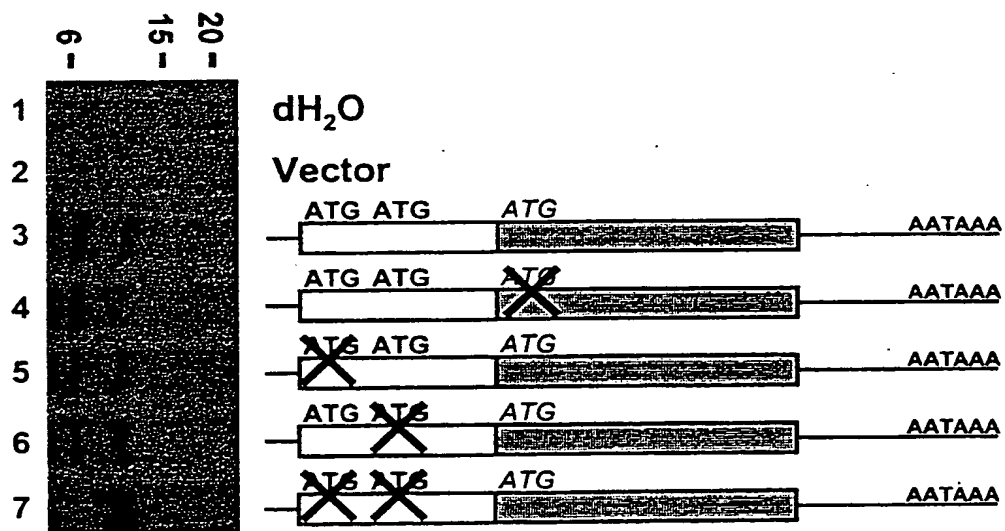


FIG. 9

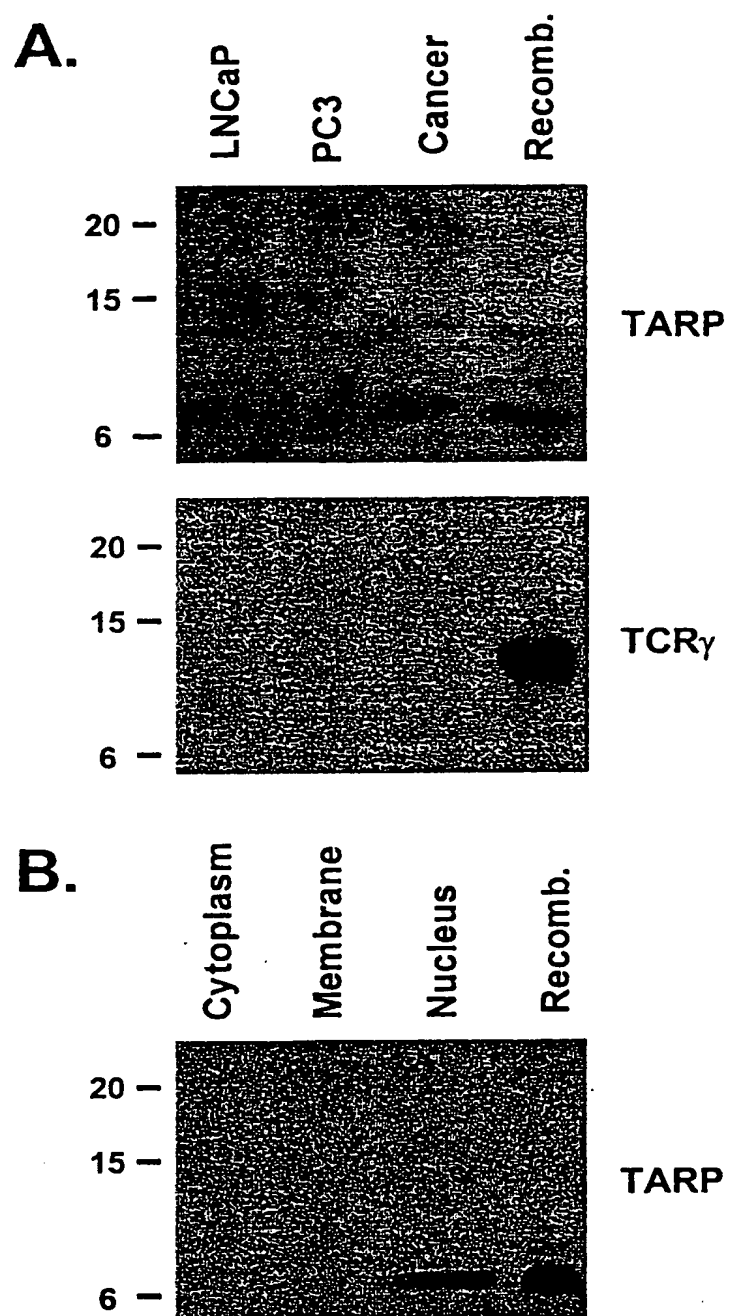


FIG. 10

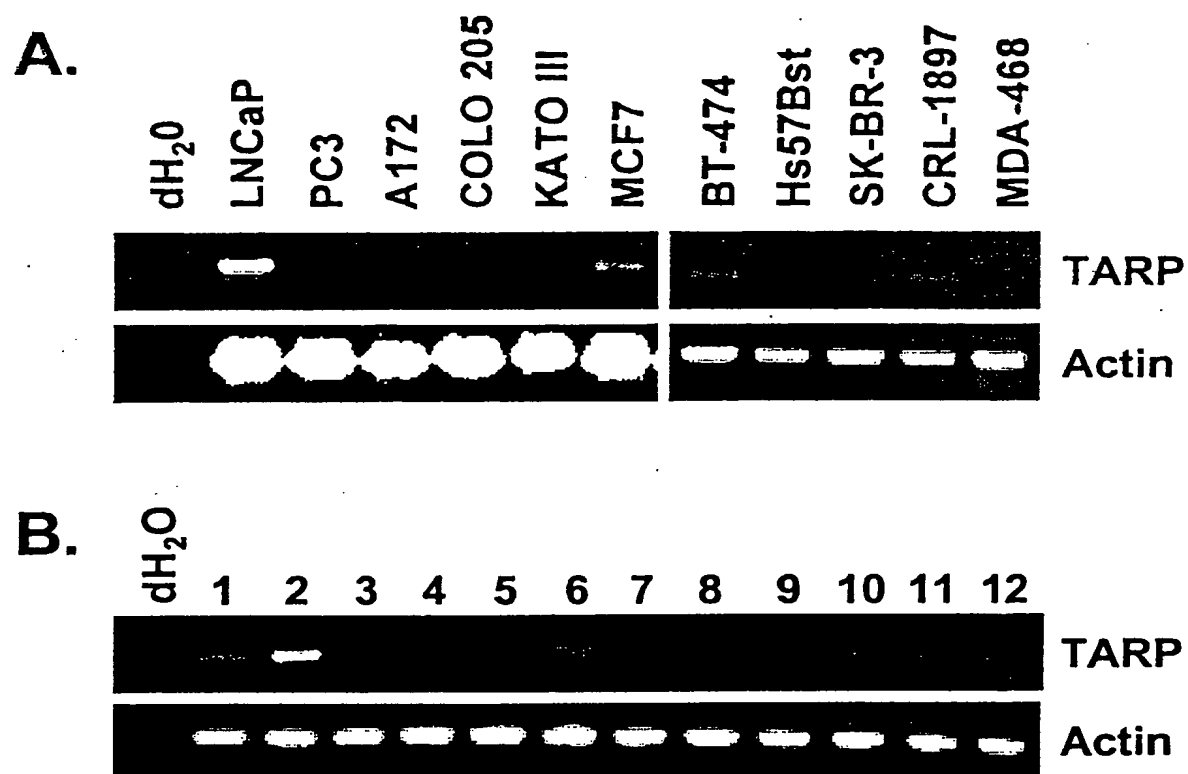


FIG. 11

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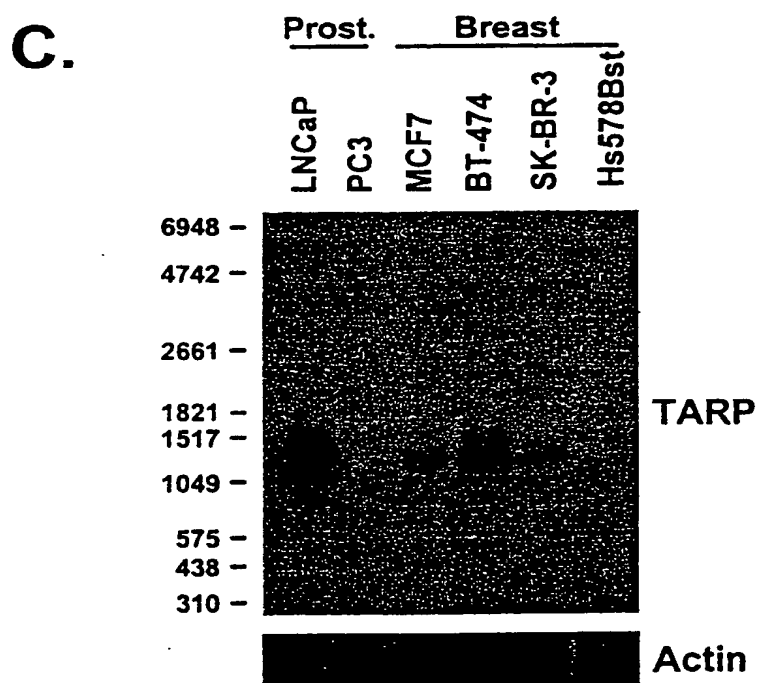
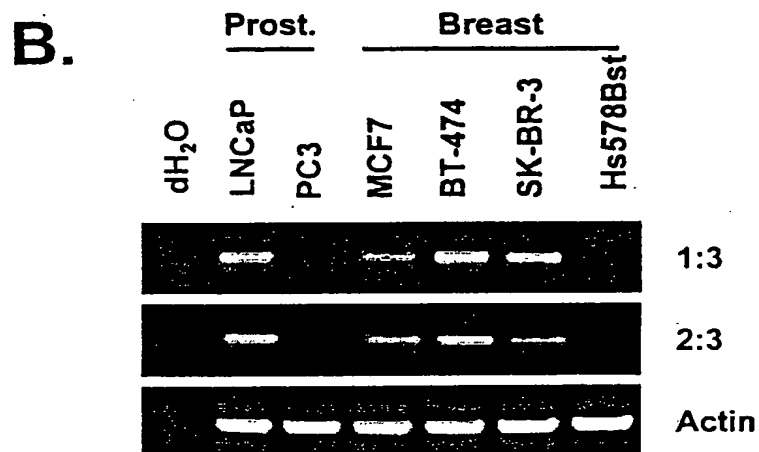
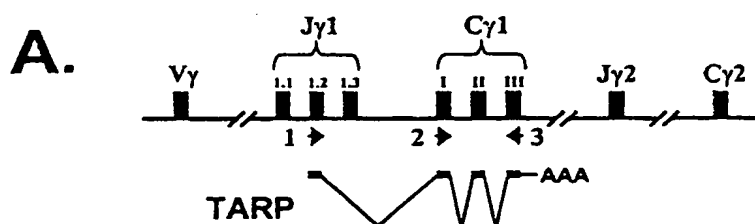


FIG. 12

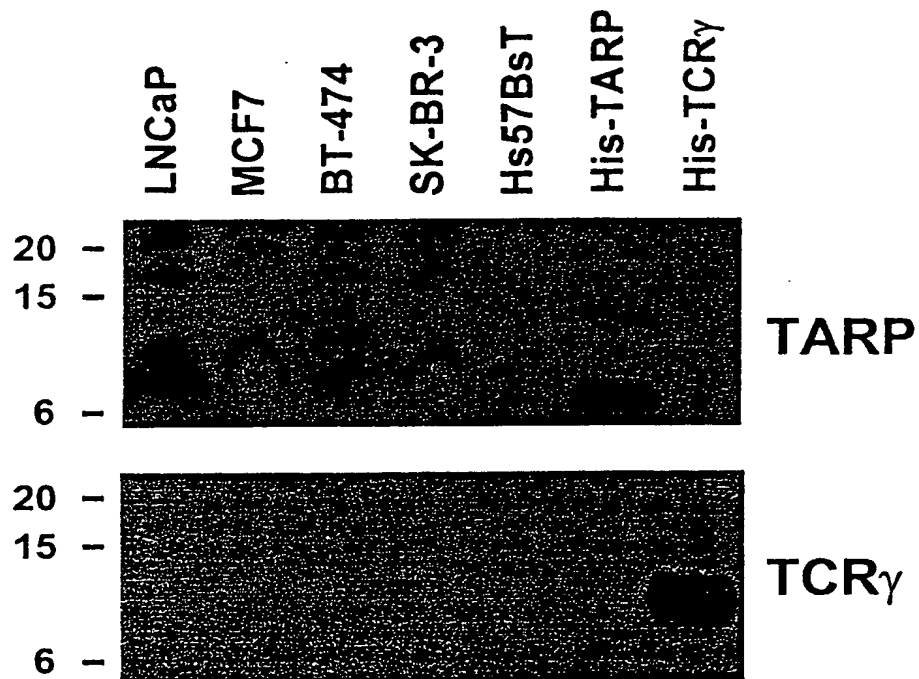


FIG. 13

A.

MQMFPPSP L FFFLQL L KQSSRRL EHTFVF L RNFSLM L RYIGKKRRAT RFWDPRRGTP

B.

TARP	G	K	K	R	R	A	T	R	F	W	D	P	R	R	G	T
DTUP1	G	S	K	D	R	S	V	Q	F	W	D	P	R	N	G	T
YTUP1	G	S	K	D	R	G	V	L	F	W	D	K	K	S	G	N

FIG. 14